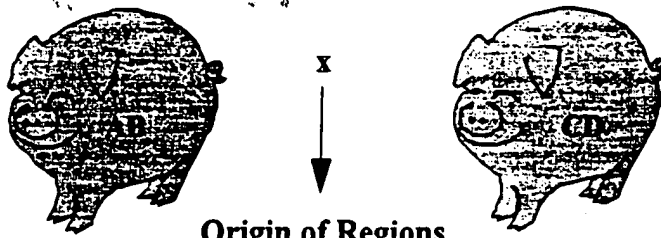


Fig. 1



| Haplotype | Class II | Class I |
|-----------|----------|---------|
| a | | |
| c | | |
| d | | |
| f | | |
| g | | |
| h | | |
| j | | |

09766484-04004
100101969200

Fig. 2

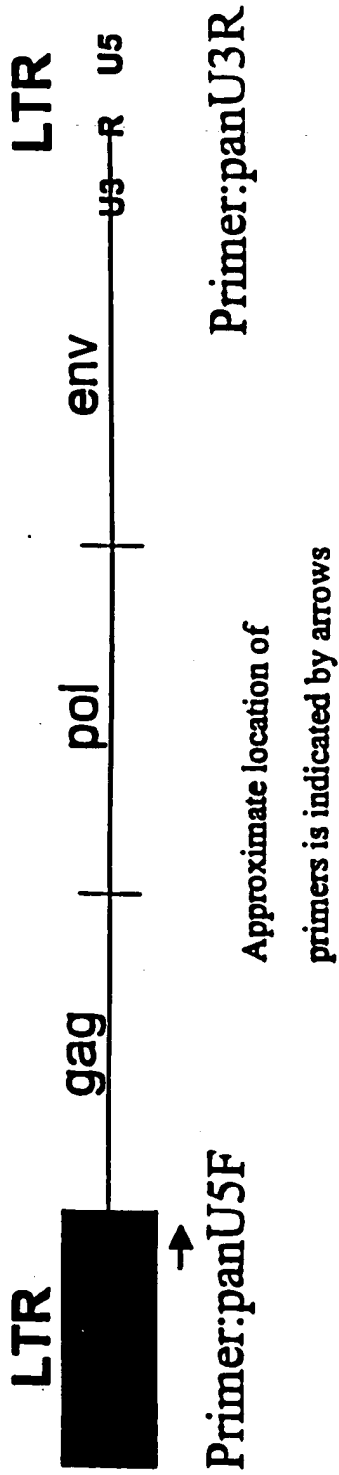


FIGURE 3(a) Sequence of clone 12002-1

| | | | | | |
|------------|------------|------------|-------------|------------|-----|
| ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTTCGGG | GTGGAAAGCC | 50 |
| GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| CTCTGTCAAT | AACTCCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCG | 150 |
| AACTCCCATA | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCTC | 350 |
| AGGACCCCCA | AATAATGAAG | AATATTGCGG | AAATCCTCAG | GATTTCTTTT | 400 |
| GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGAC | 600 |

FIGURE 3(b) Sequence of clone 12002-2

| | | | | | |
|------------|------------|------------|-------------|------------|-----|
| ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTTCGGG | GTGGAAAGCC | 50 |
| GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| CTCTGTCAAT | AACTCCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCG | 150 |
| AACTCCCATA | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGAC | 600 |

FIGURE 3(c) Sequence of clone 12002-3

| | | | | | |
|------------|------------|------------|-------------|------------|-----|
| ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTTCGGG | GTGGAAAGCC | 50 |
| GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| CTCTGTCAAT | AACTCCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCG | 150 |
| AACTCCCATA | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | | |

FIGURE 3(d) Sequence of clone 12002-4

| | | | | | |
|------------|------------|------------|------------|------------|-----|
| ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCGGG | GTGGAAAGCC | 50 |
| GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| CTCTGTCAAT | AACTCCTCAA | GTTAATGGTA | AACGCCTTGT | GAACAGTCCG | 150 |
| AACTCCCATA | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGAC | 600 |

FIGURE 3(e) Sequence of clone 12002-5

| | | | | | |
|------------|------------|------------|------------|------------|-----|
| ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCGGG | GTGGAAAGCC | 50 |
| GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| CTCTGTCAAT | AACTCCTCAA | GTTAATGGTA | AACGCCTTGT | GAACAGTCCG | 150 |
| AACTCCCATA | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGA | |

FIGURE 3(f) Sequence of clone 12002-6

| | | | | | |
|------------|------------|------------|------------|------------|-----|
| ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCGGG | GTGGAAAGCC | 50 |
| GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| CTCTGTCAAT | AACTCCTCAA | GTTAATGGTA | AACGCCTTGT | GAACAGTCCG | 150 |
| AACTCCCATA | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGA | |

FIGURE 4

Comparison of sequences of clones 12002-1 though 12002-7

| | | | | | | | |
|-------------|-----|------------|-------------|------------|------------|------------|-----|
| 12002-1.DNA | 1 | ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCGGG | GTGGAAAGCC | 50 |
| 12002-2.DNA | 1 | ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCGGG | GTGGAAAGCC | 50 |
| 12002-3.DNA | 1 | ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCGGG | GTGGAAAGCC | 50 |
| 12002-4.DNA | 1 | ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCGGG | GTGGAAAGCC | 50 |
| 12002-5.DNA | 1 | ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCGGG | GTGGAAAGCC | 50 |
| 12002-6.DNA | 1 | ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCGGG | GTGGAAAGCC | 50 |
| 12002-7.DNA | 1 | ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCGGG | GTGGAAAGCC | 50 |
| 12002-1.DNA | 51 | GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| 12002-2.DNA | 51 | GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| 12002-3.DNA | 51 | GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| 12002-4.DNA | 51 | GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| 12002-5.DNA | 51 | GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| 12002-6.DNA | 51 | GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| 12002-7.DNA | 51 | GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| 12002-1.DNA | 101 | CTCTGTCAAT | AACCTCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCG | 150 |
| 12002-2.DNA | 101 | CTCTGTCAAT | AACCTCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCG | 150 |
| 12002-3.DNA | 101 | CTCTGTCAAT | AACCTCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCG | 150 |
| 12002-4.DNA | 101 | CTCTGTCAAT | AACCTCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCG | 150 |
| 12002-5.DNA | 101 | CTCTGTCAAT | AACCTCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCG | 150 |
| 12002-6.DNA | 101 | CTCTGTCAAT | AACCTCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCG | 150 |
| 12002-7.DNA | 101 | CTCTGTCAAT | AACCTCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCG | 150 |
| 12002-1.DNA | 151 | AACCTCCATA | AACCCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 12002-2.DNA | 151 | AACCTCCATA | AACCCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 12002-3.DNA | 151 | AACCTCCATA | AACCCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 12002-4.DNA | 151 | AACCTCCATA | AACCCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 12002-5.DNA | 151 | AACCTCCATA | AACCCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 12002-6.DNA | 151 | AACCTCCATA | AACCCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 12002-7.DNA | 151 | AACCTCCATA | AACCCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 12002-1.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 12002-2.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 12002-3.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 12002-4.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 12002-5.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 12002-6.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 12002-7.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 12002-1.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 12002-2.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 12002-3.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 12002-4.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 12002-5.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 12002-6.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 12002-7.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 12002-1.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 12002-2.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 12002-3.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 12002-4.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 12002-5.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 12002-6.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 12002-7.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 12002-1.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 12002-2.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 12002-3.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 12002-4.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 12002-5.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 12002-6.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 12002-7.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |

Figure 4 (cont'd)

| | | | | | | | |
|-------------|-----|------------|------------|------------|------------|------------|-----|
| 12002-1.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 12002-2.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 12002-3.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 12002-4.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 12002-5.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 12002-6.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 12002-7.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| | | | | | | | |
| 12002-1.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 12002-2.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 12002-3.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 12002-4.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 12002-5.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 12002-6.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 12002-7.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| | | | | | | | |
| 12002-1.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 12002-2.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 12002-3.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | ----- | 550 |
| 12002-4.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 12002-5.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 12002-6.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 12002-7.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| | | | | | | | |
| 12002-1.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGAC | 600 |
| 12002-2.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGAC | 600 |
| 12002-3.DNA | 551 | ----- | ----- | ----- | ----- | ----- | 600 |
| 12002-4.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGAC | 600 |
| 12002-5.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGAC | 600 |
| 12002-6.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGAC | 600 |
| 12002-7.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGAC | 600 |

12002-1.DNA
12002-2.DNA
12002-3.DNA
12002-4.DNA
12002-5.DNA
12002-6.DNA
12002-7.DNA

FIGURE 5(a) Sequence from 11619-1

```

ATGCATCCCA CGTTAAGCCG GCGCCACCTC CCGATTTCGGG GTGGAAAGCC 50
GAAAAGACTG AAAATCCCCT TAAGCTTCGC CTCCATCGCG TGGTTCCTTA 100
CTCTGTCAAT AACTCCTCAA GTTAATGGTA AACGCCTTGT GGACAGCCCG 150
AACTCCCATA AACCCTTATC TCTCACCTGG TTACTTACTG ACTCCGGTAC 200
AGGTATTAAT ATTAACAGCA CTCAAGGGGA GGCTCCCTTG GGGACCTGGT 250
GGCCTGAATT ATATGTCTGC CTTGATCAG TAATCCCTGG TCTCAATGAC 300
CAGGCCACAC CCCCCGATGT ACTCCGTGCT TACGGGTTTT ACGTTTGCCC 350
AGGACCCCCA AATAATGAAG AATATTGTGG AAATCCTCAG GATTTCTTTT 400
GCAAGCAATG GAGCTGCGTA ACTTCTAATG ATGGGAATTG GAAATGGCCA 450
GTCTCTCAGC AAGACAGAGT AAGTTACTCT TTTGTTAACA ATCCTACCAG 500
TTATAATCAA TTTAATTATG GCCATGGGAG ATGGAAAGAT TGGCAACAGC 550
GGGTACAAAA AGATGTACGA AATAAGCAAA TAAGCTGTCA TTCGTTAGA

```

FIGURE 5(b) Sequence from 11619-2

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ATGCATCCCA CGTTAAGCCG GCGCCACCTC CCGATTTCGGG GTGGAAAGCC 50
GAAAAGACTG AAAATCCCCT TAAGCTTCGC CTCCATCGCG TGGTTCCTTA 100
CTCTGTCAAT AACTCCTCAA GTTAATGGTA AACGCCTTGT GGACAGCCCG 150
AACTCCCATA AACCCTTATC TCTCACCTGG TTACTTACTG ACTCCGGTAC 200
AGGTATTAAT ATTAACAGCA CTCAAGGGGA GGCTCCCTTG GGGACCTGGT 250
GGCCTGAATT ATATGTCTGC CTTGATCAG TAATCCCTGG CCTCAATGAC 300
CAGGCCACAC CCCCCGATGT ACTCCGTGCT TACGGGTTTT ACGTTTGCCC 350
AGGACCCCCA AATAATGAAG AATATTGTGG AAATCCTCAG GATTTCTTTT 400
GCAAGCAATG GAGCTGCGTA ACTTCTAATG ATGGGAATTG GAAATGGCCA 450
GTCTCTCAGC AAGACAGAGT AAGTTACTCT TTTGTTAACA ATCCTACCAG 500
TTATAATCAA TTTAATTATG GCCATGGGAG ATGGAAAGAT TGGCAACAGC 550
GGGTACAAAA AGATGTACGA AATAAGCAAA TAAGCTGTCA TTCGTTAGA

```

FIGURE 5(c) Sequence from 11619-3

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ATGCATCCCA CGTTAAGCCG GCGCCACCTC CCGATTTCGGG GTGGAAAGCC 50
GAAAAGACTG AAAATCCCCT TAAGCTTCGC CTCCATCGCG TGGTTCCTTA 100
CTCTGTCAAT AACTCCTCAA GTTAATGGTA AACGCCTTGT GGACAGCCCG 150
AACTCCCATA AACCCTTATC TCTCACCTGG TTACTTACTG ACTCCGGTAC 200
AGGTATTAAT ATTAACAGCA CTCAAGGGGA GGCTCCCTTG GGGACCTGGT 250
GGCCTGAATT ATATGTCTGC CTTGATCAG TAATCCCTGG TCTCAATGAC 300
CAGGCCACAC CCCCCGATGT ACTCCGTGCT TACGGGTTTT ACGTTTGCCC 350
AGGACCCCCA AATAATGAAG AATATTGTGG AAATCCTCAG GATTTCTTTT 400
GCAAGCAATG GAGCTGCGTA ACTTCTAATG ATGGGAATTG GAAATGGCCA 450
GTCTCTCAGC AAGACAGAGT AAGTTACTCT TTTGTTAACA ATCCTACCAG 500
TTATAATCAA TTTAATTATG GCCATGGGAG ATGGAAAGAT TGGCAACAGC 550
GGGTACAAAA AGATGTACGA AATAAGCAAA TAAGCTGTCA TTCGTTAGA

```

FIGURE 5(d) Sequence from 11619-4

| | | | | | |
|------------|------------|------------|------------|------------|-----|
| GACAGCCCGA | ACTCCCATAA | ACCCTCATCT | CTCACCTGGT | TACTTACTGA | 50 |
| CTCCGGTACA | GGTATTAATA | TTAACAGCAC | TCAAGGGGAG | GCTCCCTTGG | 100 |
| GGACCTGGTG | GCCTGAATTA | TATGTCTGCC | TTCGATCAGT | AATCCCTGGT | 150 |
| CTCAATGACC | AGGCCACACC | CCCCGATGTA | CTCCGTGCTT | ACGGGTTTTA | 200 |
| CGTTTGCCCA | GGACCCCCAA | ATAATGAAGA | ATATTGTGGA | AATCCTCAGG | 250 |
| ATTTCTTTTG | CAAGCAATGG | AGCTGCGTAA | CTTCTAATGA | TGGGAATTGG | 300 |
| AAATGGCCAG | TCTCTCAGCA | AGACAGAGTA | AGTTACTCTT | TTGTTAACAA | 350 |
| TCCTACCTAT | AATAATCAAT | TTAATTATGG | CCATGGGAGA | TGGAAAGATT | 400 |
| GGCAACAGCG | GGTACAAAAA | GATGTACGAA | ATAAGCAAAT | AAGCTGTCAT | 450 |
| TCGTTAGA | | | | | |

FIGURE 5(e) Sequence from 11619-5

| | | | | | |
|------------|------------|------------|------------|------------|-----|
| TTAATGGTAA | ACGCCTTGTG | GACAGCCCGA | ACTCCCATAA | ACCCTTATCT | 50 |
| CTCACCTGGT | TACTTACTGA | CTCCGGTACA | GGTATTAATA | TTAACAGCAC | 100 |
| TCAAGGGGAG | GCTCCCTTGG | GGACCTGGTG | GCCTGAATTA | TATGTCTGCC | 150 |
| TTCGATCAGT | AATCCCTGGT | CTCAATGACC | AGGCCACACC | CCCCGATGTA | 200 |
| CTCCGTGCTT | ACGGGTTTTA | CGTTTGCCCA | GGACCCCCAA | ATAATGAAGA | 250 |
| ATATTGTGGA | AATCCTCAGG | ATTTCTTTTG | CAGGCAATGG | AGCTGCGTAA | 300 |
| CTTCTAATGA | TGGAAATTGG | AAATGGCCAG | TCTCTCAGCA | AGACAGAGTA | 350 |
| AGTTACTCTT | TTGTTAACAA | TCCTACCAGT | TATAATCAAT | TTAATTATGG | 400 |
| CCATGGGAGA | TGGAAAGATT | GGCAACAGCG | GGTACAAAAA | GATGTACGAA | 450 |
| ATAAGCAAAT | AAGCTGTCAT | TCGTTAGA | | | |

FIGURE 5(f) Sequence from 11619-6

| | | | | | |
|------------|------------|------------|------------|------------|-----|
| TTAATGGTAA | ACGCCTTGTG | GACAGCCCGA | ACTCCCATAA | ACCCTTATCT | 50 |
| CTCACCTGGT | TACTTACTGA | CTCCGGTACA | GGTATTAATA | TTAACAGCAC | 100 |
| TCAAGGGGAG | GCTCCCTTGG | GGACCTGGTG | GCCTGAATTA | TATGTCTGCC | 150 |
| TTCGATCAGT | AATCCCTGGT | CTCAATGACC | AGGCCACACC | CCCCGATGTA | 200 |
| CTCCGTGCTT | ACGGGTTTTA | CGTTTGCCCA | GGACCCCCAA | ATAATGAAGA | 250 |
| ATATTGTGGA | AATCCTCAGG | ATTTCTTTTG | CAAGCAATGG | AGCTGCGTAA | 300 |
| CTTCTAATGA | TGGGAATTGG | AAATGGCCAG | TCTCTCAGCA | AGACAGAGTA | 350 |
| AGTTACTCTT | TTGTTAACAA | TCCTACCAGT | TATAATCAAT | TTAATTATGG | 400 |
| CCATGGGAGA | TGGAAAGATT | GGCAACAGCG | GGTACAAAAA | GATGTACGAA | 450 |
| ATAAGCAAAT | AAGCTGTCAT | TCGTTAGA | | | |

FIGURE 5(g) Sequence from 11619-7

| | | | | | |
|------------|------------|------------|------------|------------|-----|
| GACAGCCCGA | ACTCCCATAA | ACCCTTATCT | CTCACCTGGT | TACTTACTGA | 50 |
| CTCCGGTACA | GGTATTAATA | TTAACAGCAC | TCAAGGGGAG | GCTCCCTTGG | 100 |
| GGACCTGGTG | GCCTGAATTA | TATGTCTGCC | TTCGATCAGT | AATCCCTGGT | 150 |
| CTCAATGACC | AGGCCACACC | CCCCGATGTA | CTCCGTGCTT | ACGGGTTTTA | 200 |
| CGTTTGCCCA | GGACCCCCAA | ATAATGAAGA | ATATTGTGGA | AATCCTCAGG | 250 |
| ATTTCTTTTG | CAAGCAATGG | AGCTGCGTAA | CTTCTAATGA | TGGAATTTGG | 300 |
| AAATGGCCAG | TCTCTCAGCA | AGACAGAGTA | AGTTACTCTT | TTGTTAACAA | 350 |
| TCCTACCAGT | TATAATCAAT | TTAATTATGG | CCATGGGAGA | TGGAAAGATT | 400 |
| GGCAACAGCG | GGTACAAAAA | GATGTACGAA | ATAAGCAAAT | AAGCTGTCAT | 450 |
| TCGTTAGA | | | | | |

FIGURE 5(h) Sequence from 11619-8

| | | | | | |
|------------|------------|------------|------------|------------|-----|
| TTAATGGTAA | ACGCCTTGTG | GACAGCCCGA | ACTCCCATAA | ACCCTTATCT | 50 |
| CTCACCTGGT | TACTTACTGA | CTCCGGTACA | GGTATTAATA | TTAACAGCAC | 100 |
| TCAAGAGGAG | GCTCCCTTGG | GGACCTGGTG | GCCTGAATTA | TATGTCTGCC | 150 |
| TTCGATCAGT | AATCCCTGGT | CTCAATGACC | AGGCCACACC | CCCCGATGTA | 200 |
| CTCCGTGCTT | ACGGGTTTTA | CGTTTGCCCA | GGACCCCCAA | ATAATGAAGA | 250 |
| ATATTGTGGA | AATCCTCAGG | ATTTCTTTTG | CAAGCAATGG | AGCTGCGTAA | 300 |
| CTTCTAATGA | TGGAATTTGG | AAATGGCCAG | TCTCTCAGCA | AGACAGAGTA | 350 |
| AGTTACTCTT | TTGTTAACAA | TCCTACCAGT | TATAATCAAT | TTAATTATGG | 400 |
| CCATGGGAGA | TGGAAAGATT | GGCAACAGCG | GGTACAAAAA | GATGTACGAA | 450 |
| ATAAGCAAAT | AAGCTGTCAT | TCGTTAGA | | | |

FIGURE 5(i) Sequence from 11619-9

| | | | | | |
|------------|------------|------------|------------|------------|-----|
| TTAATGGTAT | GCGCCTTGTG | GACTGCCCGA | ACTCCCATAA | ACCCTTATCT | 50 |
| CTCACCTGGT | TACTTACTGA | CTCCGGTACA | GGTATTAATA | TTAACATCAC | 100 |
| TCAAGGGGAG | GCTCCCTTGG | GGACCTGGTG | GCCTGAATTA | TATGTCTGCC | 150 |
| TTCGATCAGT | AATCCCTGGT | CTCAATGACC | AGGCCACACC | CCCCGATGTA | 200 |
| CTCCGTGCTT | ACGGGTTTTA | CGTTTGCCCA | GGACCCCCAA | ATAATGAAGA | 250 |
| ATATTGTGGA | AATCCTCAGG | ATTTCTTTTG | CAAGCAATGG | AGCTGCGTAA | 300 |
| CTTCTAATGA | TGGAATTTGG | AAATGGCCAG | TCTCTCAGCA | AGACAGAGTA | 350 |
| AGTTACTCTT | TTGTTAACAA | TCCTACCAGT | TATAATCAAT | TTAATTATGG | 400 |
| CCATGGGAGA | TGGAAAGATT | GGCAACAGCG | GGTACAAAAA | GATGTACGAA | 450 |
| ATAAGCAAAT | AAGCTGTCAT | TCGTTAGA | | | |

FIGURE 6 Comparison of the sequences derived from pig 11619

| | | | | | | | |
|-------------|-----|------------|------------|------------|------------|-------------|-----|
| 11619-1.DNA | 1 | ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCCGG | GTGGAAAGCC | 50 |
| 11619-2.DNA | 1 | ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCCGG | GTGGAAAGCC | 50 |
| 11619-3.DNA | 1 | ATGCATCCCA | CGTTAAGCCG | GCGCCACCTC | CCGATTCCGG | GTGGAAAGCC | 50 |
| 11619-4.DNA | 1 | ----- | ----- | ----- | ----- | ----- | 50 |
| 11619-5.DNA | 1 | ----- | ----- | ----- | ----- | ----- | 50 |
| 11619-6.DNA | 1 | ----- | ----- | ----- | ----- | ----- | 50 |
| 11619-7.DNA | 1 | ----- | ----- | ----- | ----- | ----- | 50 |
| 11619-8.DNA | 1 | ----- | ----- | ----- | ----- | ----- | 50 |
| 11619-9.DNA | 1 | ----- | ----- | ----- | ----- | ----- | 50 |
| 11619-1.DNA | 51 | GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| 11619-2.DNA | 51 | GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| 11619-3.DNA | 51 | GAAAAGACTG | AAAATCCCCT | TAAGCTTCGC | CTCCATCGCG | TGGTTCCTTA | 100 |
| 11619-4.DNA | 51 | ----- | ----- | ----- | ----- | ----- | 100 |
| 11619-5.DNA | 51 | ----- | ----- | ----- | ----- | ----- | 100 |
| 11619-6.DNA | 51 | ----- | ----- | ----- | ----- | ----- | 100 |
| 11619-7.DNA | 51 | ----- | ----- | ----- | ----- | ----- | 100 |
| 11619-8.DNA | 51 | ----- | ----- | ----- | ----- | ----- | 100 |
| 11619-9.DNA | 51 | ----- | ----- | ----- | ----- | ----- | 100 |
| 11619-1.DNA | 101 | CTCTGTCAAT | AACTCCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCCG | 150 |
| 11619-2.DNA | 101 | CTCTGTCAAT | AACTCCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCCG | 150 |
| 11619-3.DNA | 101 | CTCTGTCAAT | AACTCCTCAA | GTTAATGGTA | AACGCCTTGT | GGACAGCCCCG | 150 |
| 11619-4.DNA | 101 | ----- | ----- | ----- | ----- | -GACAGCCCCG | 150 |
| 11619-5.DNA | 101 | ----- | ----- | -TTAATGGTA | AACGCCTTGT | GGACAGCCCCG | 150 |
| 11619-6.DNA | 101 | ----- | ----- | -TTAATGGTA | AACGCCTTGT | GGACAGCCCCG | 150 |
| 11619-7.DNA | 101 | ----- | ----- | ----- | ----- | -GACAGCCCCG | 150 |
| 11619-8.DNA | 101 | ----- | ----- | -TTAATGGTA | AACGCCTTGT | GGACAGCCCCG | 150 |
| 11619-9.DNA | 101 | ----- | ----- | -TTAATGGTA | TGCGCCTTGT | GGACTGCCCG | 150 |
| 11619-1.DNA | 151 | AACTCCCAT | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 11619-2.DNA | 151 | AACTCCCAT | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 11619-3.DNA | 151 | AACTCCCAT | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 11619-4.DNA | 151 | AACTCCCAT | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 11619-5.DNA | 151 | AACTCCCAT | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 11619-6.DNA | 151 | AACTCCCAT | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 11619-7.DNA | 151 | AACTCCCAT | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 11619-8.DNA | 151 | AACTCCCAT | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 11619-9.DNA | 151 | AACTCCCAT | AACCCTTATC | TCTCACCTGG | TTACTTACTG | ACTCCGGTAC | 200 |
| 11619-1.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 11619-2.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 11619-3.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 11619-4.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 11619-5.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 11619-6.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 11619-7.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 11619-8.DNA | 201 | AGGTATTAAT | ATTAACAGCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 11619-9.DNA | 201 | AGGTATTAAT | ATTAACATCA | CTCAAGGGGA | GGCTCCCTTG | GGGACCTGGT | 250 |
| 11619-1.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 11619-2.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 11619-3.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 11619-4.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 11619-5.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 11619-6.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 11619-7.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 11619-8.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 11619-9.DNA | 251 | GGCCTGAATT | ATATGTCTGC | CTTCGATCAG | TAATCCCTGG | TCTCAATGAC | 300 |
| 11619-1.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 11619-2.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 11619-3.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 11619-4.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 11619-5.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 11619-6.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 11619-7.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 11619-8.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |
| 11619-9.DNA | 301 | CAGGCCACAC | CCCCCGATGT | ACTCCGTGCT | TACGGGTTTT | ACGTTTGCCC | 350 |

Figure 6 (cont'd)

| | | | | | | | |
|-------------|-----|------------|------------|------------|------------|------------|-----|
| 11619-1.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 11619-2.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 11619-3.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 11619-4.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 11619-5.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 11619-6.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 11619-7.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 11619-8.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| 11619-9.DNA | 351 | AGGACCCCCA | AATAATGAAG | AATATTGTGG | AAATCCTCAG | GATTTCTTTT | 400 |
| | | | | | | | |
| 11619-1.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 11619-2.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 11619-3.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 11619-4.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 11619-5.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 11619-6.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 11619-7.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 11619-8.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| 11619-9.DNA | 401 | GCAAGCAATG | GAGCTGCGTA | ACTTCTAATG | ATGGGAATTG | GAAATGGCCA | 450 |
| | | | | | | | |
| 11619-1.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 11619-2.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 11619-3.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 11619-4.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 11619-5.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 11619-6.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 11619-7.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 11619-8.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| 11619-9.DNA | 451 | GTCTCTCAGC | AAGACAGAGT | AAGTTACTCT | TTTGTTAACA | ATCCTACCAG | 500 |
| | | | | | | | |
| 11619-1.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 11619-2.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 11619-3.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 11619-4.DNA | 501 | TAATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 11619-5.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 11619-6.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 11619-7.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 11619-8.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| 11619-9.DNA | 501 | TTATAATCAA | TTTAATTATG | GCCATGGGAG | ATGGAAAGAT | TGGCAACAGC | 550 |
| | | | | | | | |
| 11619-1.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGA. | 600 |
| 11619-2.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGA. | 600 |
| 11619-3.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGA. | 600 |
| 11619-4.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGA. | 600 |
| 11619-5.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGA. | 600 |
| 11619-6.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGA. | 600 |
| 11619-7.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGA. | 600 |
| 11619-8.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGA. | 600 |
| 11619-9.DNA | 551 | GGGTACAAAA | AGATGTACGA | AATAAGCAAA | TAAGCTGTCA | TTCGTTAGA. | 600 |